

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**In re application of:** Jacobson

**Docket No.** JACO0001

**Serial No.:** 10/816,123

**Art Unit:** 2173

**Filed:** 01 April 2004

**Examiner:** Unassigned

**Title:** MOUSE PERFORMANCE IDENTIFICATION

21 September 2006

Assistant Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

This Information Disclosure Statement is submitted:

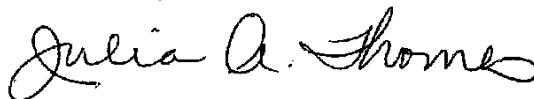
- ☒ (X) under 37 CFR 1.97(b), or  
(within three months of filing national application; or date of entry of international application; or before mailing date of first office action on the merits; whichever occurs last)
- ☐ ( ) under 37 CFR 1.97(c) together with either a:
  - ☐ ( ) Certification under 37 CFR 1.97(e), or
  - ☐ ( ) a \$180.00 fee under 37 CFR 1.17(p), or  
(After the CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ ( ) under 37 CFR 1.97(d) together with a:
  - ☐ ( ) Certification under 37 CFR 1.97(e), and
  - ☐ ( ) a \$180.00 fee under 37 CFR 1.17(d)(2)(ii), and
  - ☐ ( ) a \$130.00 petition fee set forth in 37 CFR 1.17(i)(1)  
(Filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee)
- ☒ (X) The Commissioner is authorized to charge any additional fees or credit any overpayment to Deposit Account No. 07-1445 (Order No. JACO0001).

(X) Applicant(s) submit herewith Form PTO SB/08 -- Information Disclosure Citation together with copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.25.

( ) A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individual(s) designated in 37 CFR 156(c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

Respectfully Submitted,

A handwritten signature in cursive script that reads "Julia A. Thomas".

JULIA A. THOMAS  
Reg. No. 52,283

Customer No. 22862

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1

of 4

**Complete if Known**

Application Number	10/816,123
Filing Date	04/01/2004
First Named Inventor	Jacobson
Art Unit	2173
Examiner Name	Unassigned
Attorney Docket Number	JACO0001

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	a	US- 7,006,881	02-2006	Hoffberg et al	
	b	US- 2003/0115490	06-2003	Russo et al	
	c	US- 2003/0184589	10-2003	Yamada et al	
	d	US- 2005/0057339	03-2005	Ikehara et al	
	e	US- 2006/0064415	03-2006	Guyon et al	
	f	US- 2006/0101163	05-2006	Lu	
	g	US- 2006/0155398	07-2006	Hoffberg et al	
	h	US- 2006/0202956	09-2006	Lu	
	i	US- 6,400,996	06-2002	Hoffberg	
	j	US- 6,601,192	06-2003	Bowman-Amuah	
	k	US-			
	l	US-			
	m	US-			
	n	US-			
	o	US-			
	p	US-			
	q	US-			
	r	US-			
	s	US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	AA	WO 2004097601	11-2004	Ahmend et al		
	BB	EP 1349046	02-2003	Fujitsu Ltd.		
	CC	WO 2002103954	12-2002	Biowulf Tech.		
	DD	WO 2003083758	10-2003	Bank25 Co., Ltd.		
	EE	JP 11119906	04-1999	Taisei Corp.		
	FF	JP 2004054395	02-2004	Nippon Electric Co.		

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Considered

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2

of	4
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Application Number	10/816,123
Filing Date	04/01/2004
First Named Inventor	Jacobson
Art Unit	2173
Examiner Name	Unassigned
Attorney Docket Number	JAC00001

## U. S. PATENT DOCUMENTS

[illegible]

**FOREIGN PATENT DOCUMENTS**

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	GG	EP 1685794	11-2004	Sony Corp.		
	HH	WO 2003007125	01-2003	Icontrol Transactions Inc		
	II					
	JJ					
	KK					
	LL					

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Signature**

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Application Number 10/816,123

Filing Date 04/01/2004

First Named Inventor Jacobson

Art Unit 2173

Examiner Name Unassigned

Attorney Docket Number JACO0001

Sheet 3

of 4

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	A	GAMBOA, H. et al.; A Behavioral Biometric System Based On Human Computer Interaction; Escola Superior de Tecnologia de Set'ubal, Campo do IPS, Estefanilha, 2914-508 Set'ubal, Portugal	
	B	GOULD, S.; A Novel Approach to User Authentication Through Machine Learning of Keyboard Acoustic Emanations; CS229 MACHINE LEARNING FINAL PROJECT - GOULD sgould@stanford.ed	
	C	Mouse movement analyzer: ID someone based on their mouse movements; <a href="http://www.halfbakery.com/idea/mouse_20movement_20analyser">http://www.halfbakery.com/idea/mouse_20movement_20analyser</a>	
	D	PUSARA, M. et al.; User Re-Authentication via Mouse Movements; VizSEC/DMSEC'04, Proceedings of the 2004 ACM Workshop on Visualization and Data Mining for Computer Security, p 1-8; Washington, DC, USA; October 29, 2004	
	E	Suggested Research Topics: <a href="http://csis.pace.edu/~ctappert/research/researchtopics.htm">http://csis.pace.edu/~ctappert/research/researchtopics.htm</a>	
	F	PUSARA, M. et al.; User Re-Authentication via Mouse Movements; <a href="http://portal.acm.org/citation.cfm?id=1029210">http://portal.acm.org/citation.cfm?id=1029210</a>	
	G	CLAYPOOL, M. et al.; Implicit Interest Indicators; Computer Science Department, Worcester Polytechnic Institute, MA; IUI'01, January 14-17, 2001, Santa Fe, New Mexico, USA	
	H	YUAN QI et al.; Context-sensitive Bayesian Classifiers and Application to Mouse Pressure Pattern Classification; Media Lab, MIT, Cambridge, MA	
	I	Secure Web Based Mail Services by Keith Pasley, CISSP on 24/01/04; <a href="http://www.infosecwriters.com/texts.php?op=display&amp;id=142">http://www.infosecwriters.com/texts.php?op=display&amp;id=142</a>	
	J	DAVIS, D. et al.; On user choice in graphical password schemes; Proceedings of the 13th USENIX Security Symposium p. 151-63; USENIX Association, Berkeley, CA, USA; 2004	

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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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Sheet 4

of 4

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	K	ABHIJIT RAO; Inception of Relation-based User Authentication system coupled with User Behavior Analysis; Manipal Institute of Technology, Manipal, Karnataka, India; ITG Publication, December 2001: 4.1; <a href="http://www.internettg.org/newsletter/dec01/article_rao.html">http://www.internettg.org/newsletter/dec01/article_rao.html</a>	
	L	JERMYN, I. et al.; The Design And Analysis of Graphical Passwords; March 8, 1999; Department of Computer Science, New York University, USA; Jermyn@cs.nyu.edu	
	M	MOYLE, M. et al.; A Flick in the Right Direction: An Evaluation of Simple Gesture Based Controls; November 2, 2001	
	N	MOYLE, M. et al.; Analysing Mouse and Pen Flick Gestures; Human-Computer Interaction Lab, Department of Computer Science, University of Canterbury, Christchurch, New Zealand; 2002	
	O	Google Search: user authentication and mouse movement; 09/15/2006 01:47 PM;	
	P	MINGZHE ZHU; A World Wide Web Based Server for Technology Transfer and Remote Collaboration; Thesis, B.E., Tsinghua University, Beijing, 1988; M.E., Tsinghua University, Beijing, 1993; Submitted to University of Illinois at Urbana-Champaign, 1996	
	Q	HOWE, JEFF; Wired Magazine; "That Doesn't Even Look Like My Typing"; June 2005	
	R		
	S		
	T		

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Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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